

✓ ✓
Page 62, line 6 from the bottom, change "Organic" to --The organic--.

✓ ✓
Page 69, line 14, change "Organic" to --The organic--.

✓ ✓
Page 72, line 12, change "Aqueous" to --The aqueous--.

✓
Page 74, last line, change "Organic" to --The organic--.

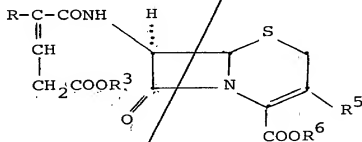
✓ ✓
Page 75, line 6, change "Organic" to --The organic--.

✓ ✓
Page 76, line 10, change "Organic" to --The organic--.

IN THE CLAIMS:

✓ ✓
Cancel, without prejudice to the subject matter involved, claims 1 - 28 inclusive and insert in their stead the following new claims:

--29. A compound of the formula



wherein R is 2-aminothiazol-4-yl the amino group of which is unprotected or protected with a protecting group,

B1
Sub C1

Dep't C1
N
N
K
R³ is hydrogen, a pharmacologically acceptable salt forming group, a lower aralkyl group or a lower alkylene group,

R⁵ is hydrogen, methyl, vinyl, cyanovinyl, trifluoropropenyl, methoxymethyl, carbamoyloxymethyl, methylthiomethyl, cyanomethylthiomethyl, thiadiazolylthiomethyl, triazolylthiomethyl, aminomethylthiadiazolylthiomethyl, aminothiadiazolylthiomethyl, methoxy, fluoroethylthio, trifluoroethylthio, or halogen, and R⁶ is hydrogen, a pharmacologically acceptable salt forming atom or group, a lower alkyl group, a lower alkenyl group or a lower aralkyl group.

B1 Cont
P1 30. A compound according to claim 29 wherein

R³ is hydrogen or a pharmacologically acceptable salt forming group,

R⁵ is hydrogen, methyl, vinyl, trifluoropropenyl, methoxymethyl, carbamoyloxymethyl, methylthiomethyl, cyanomethylthiomethyl, thiadiazolylthiomethyl, methoxy, fluoroethylthio, trifluoroethylthio, or halogen, and

R⁶ is hydrogen or a pharmacologically acceptable salt forming atom or group.

31. A compound according to claim 30, said compound being 7beta-[2-(2-aminothiazol-4-yl)-4-carboxy-2-butenoylamino]-3-*q* cephem-4-carboxylic acid.

32. A compound according to claim 31, said compound being 7beta-[2-(2-aminothiazol-4-yl)-4-carboxy-2-butenoylamino]-3-*q* methyl-3-cephem-4-carboxylic acid.

⁵
33. A compound according to claim ~~28~~¹, said compound being
7beta-[2-(2-aminothiazol-4-yl)-4-carboxy-2-butenoylamino]-3-
vinyl-3-cephem-4-carboxylic acid.

⁴
34. A compound according to claim ~~35~~¹, said compound being
7beta-[2-(2-aminothiazol-4-yl)-4-carboxy-2-butenoylamino]-3-
trifluoropropenyl-3-cephem-4-carboxylic acid.

⁷
35. A compound according to claim ~~28~~¹, said compound being
7beta-[2-(2-aminothiazol-4-yl)-4-carboxy-2-butenoylamino]-3-
carbamoyloxymethyl-3-cephem-4-carboxylic acid.

⁸
36. A compound according to claim ~~35~~¹, said compound being
7beta-[2-(2-aminothiazol-4-yl)-4-carboxy-2-butenoylamino]-3-
methoxymethyl-3-cephem-4-carboxylic acid.

⁹
37. A compound according to claim ~~28~~¹, said compound being
7beta-[2-(2-aminothiazol-4-yl)-4-carboxy-2-butenoylamino]-3-
methylthiomethyl-3-cephem-4-carboxylic acid.

¹⁰
38. A compound according to claim ~~28~~¹, said compound being
7beta-[2-(2-aminothiazol-4-yl)-4-carboxy-2-butenoylamino]-3-
cyanomethylthiomethyl-3-cephem-4-carboxylic acid.

²
39. A compound according to claim 29, said compound being
7beta-[2-(2-aminothiazol-4-yl)-4-carboxy-2-butenoylamino]-3-
triazolylthiomethyl-3-cephem-4-carboxylic acid.

^N
40. A compound according to claim 29, said compound being
7beta-[2-(2-aminothiazol-4-yl)-4-carboxy-2-butenoylamino]-3-
thiadiazolylthiomethyl-3-cephem-4-carboxylic acid.

¹³
4f. A compound according to claim ¹2f, said compound being
7beta-[2-(2-aminothiazol-4-yl)-4-carboxy-2-butenoylamino]-3f
methoxy-3-cephem-4-^{carboxylic} acid. ⁹

¹⁴
4f. A compound according to claim ¹¹2f, said compound being
7beta-[2-(2-aminothiazol-4-yl)-4-carboxy-2-butenoylamino]-3f
chloro-3-cephem-4-carboxylic acid. ⁹

¹⁵
4f. A compound according to claim ¹¹2f, said compound being
7beta-[2-(2-aminothiazol-4-yl)-4-carboxy-2-butenoylamino]-3f
2-fluoroethylthio-3-cephem-4-carboxylic acid. ⁹

¹⁶
4f. A compound according to claim ¹¹2f, said compound being
7beta-[2-(2-aminothiazol-4-yl)-4-carboxy-2-butenoylamino]-3f
2,2,2-trifluoroethylthio-3-cephem-4-carboxylic acid. ⁹

¹⁷
4f. An antibacterial composition which comprises an antibac-
terially effective amount of a compound of claim ¹4 and a
pharmaceutically acceptable carrier therefor.

¹⁸
4f. A method for combatting bacteria which comprises bringing
an antibacterially effective amount of a compound of claim ¹2f
into contact with the bacteria. ⁹

REMARKS

Further and favorable reconsideration is respectfully requested.

The specification has been reviewed for errors and certain
editorial corrections are effected. It is believed that these